

Routine Road Maintenance
Program Activity Components

Maintenance Activity			Categories														
Proximity	Classification	Components	Roadway Surface	Enclosed Drainage Systems	Cleaning Enclosed Drainage System	Open Drainage Systems	Watercourse & Streams	Stream Crossings	Gravel Shoulders	Street Surface Cleaning	Bridge Maintenance	Snow & Ice Control	Emergency Slide/Washout Repair	Concrete	Sewer Systems	Water Systems	Vegetation Management
Distant from Stream (>300 ft away)	Earth/ Surface Work	Clearing, Drilling, Excavation, Filling, Grading, Grubbing, Cleaning, Grinding or Cutting	X	X	X	X			X	X	X	X	X	X	X	X	X
	Hydraulic modification	Channelization or Diking				X							X				
		Culvert Cleaning															
		Culvert Extension, Reduction Replacement															
		Deposition of Large Woody Debris											X				X
		Removal of Large Woody Debris											X				X
		Temporary Water Diversion											X				
	Vegetation Modification	Long Term Removal of Vegetation				X			X		X		X		X	X	X
		Permanent Removal of Vegetation							X		X		X		X	X	X
		Planting Vegetation		X		X					X		X	X	X	X	X
		Short Term Removal of Vegetation		X		X					X	X		X	X	X	X
	Paving/Concrete	Addition of Impervious Surface	X														
		Maintenance of existing	X														
	Chemical	Fuel & Industrial Fluids Present	X	X	X	X			X	X	X	X	X	X	X	X	X
		Painting	X								X						
		Uncured Concrete, Hot Asphalt or Hot Tar Used	X								X		X	X			
Adjacent to or Above Stream (within 300 ft)	Earth/Surface or cleaning Work	Clearing, Drilling, Excavation, Filling, Grading, Grubbing, Cleaning, Grinding or Cutting	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Heavy Equipment Present	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		Shore Defense Works					X	X			X		X				
	Hydraulic modification	Channelization or Diking															
		Culvert Cleaning															
		Culvert Extension, Reduction Replacement															
		Deposition of Large Woody Debris															X
		Removal of Large Woody Debris															X
		Temporary Water Diversion															
	Vegetation Modification	Long Term Removal of Vegetation					X		X		X		X				X
		Permanent Removal of Vegetation					X		X		X		X				X
		Planting Vegetation		X		X	X	X			X		X				X
		Short Term Removal of Vegetation		X		X	X	X			X	X	X	X	X	X	X
	Paving/Concrete	Addition of Impervious Surface	X														
		Maintenance of existing	X														
	Structure Work	Bridge Debris Removal					X	X			X		X				
		Bridge Deck work/general repair									X						
	Chemical	Fuel & Industrial Fluids Present	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
		High Pressure Washing/Flushing		X	X					X	X	X			X	X	
		Painting	X								X						
		Uncured Concrete, Hot Asphalt or Hot Tar Used	X								X		X	X			
Instream	Earth Work	Drilling, Excavation, & Filling					X	X			X		X				
		Heavy Equipment Present					X	X					X				
		Manual Labor Present					X	X					X				X
		Shore Defense Works					X	X									
	Hydraulic modification	Channelization or Diking					X	X					X				
		Culvert Cleaning					X	X					X				
		Culvert Extension, Reduction Replacement					X	X									
		Deposition of Large Woody Debris					X	X			X		X				X
		Removal of Large Woody Debris					X	X			X		X				
		Temporary Water Diversion					X	X			X		X				
	Structure Work	Barge Present					X	X			X		X				
		Bridge Debris Removal					X	X			X		X				
		Falsework, Cofferdam, or Other Temporary Structure Placement						X			X						
		Pier, Footing, abutment scour									X						
	Chemical	Fuel & Industrial Fluids Present					X	X			X		X				
		High Pressure Washing/Flushing						X			X						
		Uncured Concrete Used									X						
		Treated woods (in stream only)									X						

Activities and Effects
Without Guidelines Implemented

Effect Key
(+) Likely to restore baseline indicator
(-) Likely to degrade baseline indicator
(U) Unknown effect
(N) Not Likely to Adversely Affect

Maintenance Activity																								
Proximity	Classification	Components	Temperature	Sediment	Contamination	Physical Barriers	Substrate	Large Woody Debris	Pool Frequency	Pool Quality	Large Pools	Off Channel Habitat	Refugia	Width/Depth Ratio	Streambank Condition	Channel Confinement	Flood Plain Connectivity	Peak & Base Flows	Drainage Network	Road Density	Disturbance History	Riparian Corridor	Recruitment & Pop-Hetro	
Distant from Stream (>300 ft away)	Earth/ Surface Work	Clearing, Drilling, Excavation, Filling, Grading, Grubbing, Cleaning, grinding or cutting	-	-	U / -	N	-	N	N	N	N	-	-	N	N	N	N	U	-	N	-	-	U	
	Hydraulic modification	Channelization or Diking	N	N	U / -	N	N	N	N	N	N	N	N	N	N	N	N	N	U	N	U	N	U	
		Culvert Cleaning	N	N	U / -	N	N	N	N	N	N	N	N	N	N	N	N	+	N	N	U	N	U	
		Culvert Extension, Reduction	N	N	U / -	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	U	N	U	
		Culvert Replacement	N	N	U / -	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	U	N	U	
		Deposition of Large Woody Debris	N	N	U / -	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	U	N	U	
		Removal of Large Woody Debris	N	N	U / -	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	U	N	U	
		Temporary Water Diversion	N	N	U / -	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	U	N	U	
	Vegetation Modification	Long Term Removal of Vegetation	-	-	U	N	-	-	-	-	-	-	-	-	-	-	-	N	-	-	N	-	-	U
		Permanent Removal of Vegetation	-	-	U	N	-	-	-	-	-	-	-	-	-	-	-	N	-	-	N	-	-	U
		Planting Vegetation	+	+	U	N	+	+	+	+	+	+	+	+	+	+	+	N	+	+	N	+	+	U
		Short Term Removal of Vegetation	-	-	U	N	-	N	N	N	N	N	N	N	N	N	N	N	-	N	N	U	U	U
	Paving/Concrete	Addition of Impervious Surface	U	-	-	N	-	N	N	N	N	N	-	-	N	N	N	-	-	-	-	U	-	U
		Maintenance of existing	N	-	-	N	-	N	N	N	N	N	N	N	N	N	N	N	N	N	N	U	N	U
	Chemical	Fuel & Industrial Fluids Present	N	N	-	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
		Painting	N	N	-	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
		Uncured Concrete, Hot Asphalt or Hot Tar Used	N	N	-	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Adjacent to or Above Stream (within 300 ft)	Earth/Surface or cleaning Work	Clearing, Drilling, Excavation, Filling, Grading, Grubbing, Cleaning, grinding or cutting	-	-	U / -	N	-	N	U	U	U	-	-	U	-	-	-	-	-	N	U	-	U	
		Heavy Equipment Present	N	-	-	N	-	N	N	N	N	N	N	N	N	-	N	N	N	N	N	U	N	U
		Shore Defense Works	N	-	U / -	N / -	-	N	N	N	N	-	N	N	N	-	-	-	-	N	N	-	-	U
	Hydraulic modification	Channelization or Diking	-	-	U / -	U	-	U / -	-	-	-	-	-	-	-	-	-	-	-	U	N	U	U / -	U
		Culvert Cleaning	-	-	-	N	-	N	N	-	-	-	-	N	N	N	-	-	N	N	U	N	U	
		Culvert Extension, Reduction	U	-	U / -	U / -	-	U	U	U	U	U	U	U	-	U	-	-	U	U	N	U	U	U
		Culvert Replacement	-	-	-	U / -	-	-	-	-	-	N	N	-	-	-	-	-	U	N	U	U	U	U
		Deposition of Large Woody Debris	+	-	U / -	U / -	U / -	+	U	U	U	U	U	U	N	- / +	N	N	U	N	N	U	U	U
		Removal of Large Woody Debris	-	-	U / -	N	-	-	U	-	U	U	U	U	N	U	U	N	U	N	N	U	U	U
		Temporary Water Diversion	-	-	-	U	-	N	N	N	N	N	N	N	N	N	N	N	N	N	N	U	N	U
	Vegetation Modification	Long Term Removal of Vegetation	-	-	U	N	-	U / -	-	-	-	-	-	-	-	-	-	-	-	-	N	-	-	U
		Permanent Removal of Vegetation	-	-	U	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N	-	-	U
		Planting Vegetation	+	+	U	N	+	+	+	+	+	+	+	+	+	+	+	U	+	+	N	+	+	U
		Short Term Removal of Vegetation	-	-	U	N	U / -	U / -	U	U / -	U	-	-	N	-	N	-	-	-	-	N	U	-	U
	Paving/Concrete	Addition of Impervious Surface	-	-	-	U	-	N	-	-	-	-	-	-	-	-	-	-	-	-	-	U	-	U
		Maintenance of existing	U	U	-	N	U	N	N	U	N	N	N	N	N	U	N	N	N	N	N	U	N	U
	Structure Work	Bridge Debris Removal	N	-	-	N	-	N	N	-	-	-	N	N	N	N	N	N	N	N	N	U	N	U
		Bridge Deck work/general repair	N	-	-	N	-	N	N	-	-	-	N	N	N	N	N	N	N	N	N	U	N	U
	Chemical	Fuel & Industrial Fluids Present	N	N	-	N	N	N	N	-	N	N	N	N	N	N	N	N	N	N	N	N	N	N
		High Pressure Washing/Flushing	-	-	-	N	-	N	N	-	N	N	N	N	N	N	N	N	N	N	N	N	N	N
		Painting	N	N	-	N	N	N	N	-	N	N	N	N	N	N	N	N	N	N	N	N	N	N
		Uncured Concrete, Hot Asphalt or Hot Tar Used	-	N	-	N	-	N	N	-	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Instream	Earth Work	Drilling, Excavation, & Filling	-	-	U / -	U	-	U	-	-	-	U	-	-	-	-	-	-	U	N	U	-	U	
		Heavy Equipment Present	-	-	-	N	-	N	-	-	-	N	N	-	-	N	N	N	N	N	U	N	U	
		Manual Labor Present	N	-	U / -	N	-	N	N	N	N	N	N	N	U	N	N	N	N	N	U	N	U	
		Shore Defense Works	-	-	U / -	N / -	-	U	-	-	-	-	-	-	-	-	U / -	-	U	N	-	-	U	
	Hydraulic modification	Channelization or Diking	-	-	U / -	U	-	U / -	-	-	-	-	-	-	-	-	-	-	U	N	-	N / -	U	
		Culvert Cleaning	U	-	U / -	N	-	U	U	-	-	-	-	U	U	N	-	-	N	N	U	N / +	U	
		Culvert Extension, Reduction	-	-	U / -	U / -	-	-	-	-	-	-	-	-	-	-	-	U	U	N	U	U	U	
		Culvert Replacement	-	-	U / -	U / -	-	U	-	-	U	U	U	U	-	-	-	-	U	N	U	U	U	
		Deposition of Large Woody Debris	+	-	U / -	U / -	-	+	+	U	U	- / +	- / +	- / +	- / +	N	N	U	N	N	U	U	U	
		Removal of Large Woody Debris	-	-	U / -	U	-	-	U / -	U / -	U / -	U / -	U / -	U	U / -	U	N	U	N	N	U	U	U	
		Temporary Water Diversion	-	-	-	-	-	N	-	-	N	N	N	N	N	N	N	N	N	N	U	N	U	
	Structure Work	Barge Present	U	-	U / -	U	-	N	N	U	U	U	U	U	U	U	U	U	N	N	U	N	U	
		Bridge Debris Removal	U	-	U / -	N	-	-	U	-	-	-	U	-	-	-	U	U	N	N	U	U / -	U	
		Falsework, Cofferdam, or Other Temporary Structure Placement	-	-	U / -	-	-	N	N	N	N	N	-	-	-	-	-	-	N	N	U	N	U	
		Pier, Footing, abutment scour	U	-	-	U	-	N	-	U	U / -	N	U	U	U	U	U	U	N	N	U	N	U	
	Chemical	Fuel & Industrial Fluids Present	U	N	-	N	N	N	N	-	N	N	N	N	N	N	N	N	N	N	N	N	N	N
		High Pressure Washing/Flushing	U	-	-	N	-	N	N	-	N	N	N	N	N	N	N	N	N	N	N	N	N	N
		Uncured Concrete Used	U	-	-	N	-	N	N	-	N	N	N	N	N	N	N	N	N	N	N	N	N	N
		Treated woods (in stream only)	U	N	-	N	N	N	N	-	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Activities and Effects
With the Guidelines Implemented

Effect Key
(+) Likely to restore baseline indicator
(-) Likely to degrade baseline indicator
(U) Unknown effect
(N) Not Likely to Adversely Affect
Improvement

Maintenance Activity																							
Proximity	Classification	Components	Temperature	Sediment	Contamination	Physical Barriers	Substrate	Large Woody Debris	Pool Frequency	Pool Quality	Large Pools	Off Channel Habitat	Refugia	Width/ Depth Ratio	Streambank Condition	Channel Confinement	Flood Plain Connectivity	Peak & Base Flows	Drainage Network	Road Density	Disturbance History	Riparian Corridor	Recruitment & Pop-Hetro
Distant from Stream (>300 ft away)	Earth/ Surface Work	Clearing, Drilling, Excavation, Filling, Grading, Grubbing, Cleaning, grinding or cutting	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	U	N / U	N	U	N / +	U
	Hydraulic Modification	Channelization or Diking	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	U	N	U	N	U
		Culvert Cleaning	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	+	N	N	U	N	U
		Culvert Extension, Reduction	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	U	N	U
		Culvert Replacement	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	U	N	U
		Deposition of Large Woody Debris	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	U	N	U
		Removal of Large Woody Debris	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	U	N	U
		Temporary Water Diversion	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	U	N	U
	Vegetation Modification	Long Term Removal of Vegetation	- / +	U	N	N	U	N	N	N	N	N	N	N	U	N	N	-	N	N	U	U / +	U
		Permanent Removal of Vegetation	-	U	N	N	U	N	N	N	N	N	N	N	U	N	N	-	N	N	U	-	U
		Planting Vegetation	+	+	N	N	+	+	+	+	+	+	+	+	+	+	N	+	+	N	+	+	U
		Short Term Removal of Vegetation	+	+	N	N	+	N	N	N	N	N	N	N	+	N	N	N / +	N	N	U	+	U
	Paving/Concrete	Addition of Impervious Surface	U	U	N	N	U	N	N	N	N	N	N	N	N	N	N	N	N	N	U	N	U
		Maintenance of existing	N	+	N	N	+	N	N	N	N	N	N	N	N	N	N	N	N	N	U	N	U
	Chemical	Fuel & Industrial Fluids Present	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
		Painting	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
		Uncured Concrete, Hot Asphalt or Hot Tar Used	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Adjacent to or Above Stream (within 300 ft)	Earth/Surface or cleaning Work	Clearing, Drilling, Excavation, Filling, Grading, Grubbing, Cleaning, grinding or cutting	N/-	N/ -	N	N	N/ -	N	U	U	U	N / -	N / -	N / U	N / -	N / -	N / -	N / -	N / U	N	U	N / +	U
		Heavy Equipment Present	N	N	N	N	N	N	N	N	N	N	N	N	N / -	N	N	N	N	N	U	N	U
		Shore Defense Works	N	U / +	N	N / +	U / +	N	N / +	N / +	N / +	U	N / +	N	N / +	U / -	N / -	N / -	N	N	U	+	U
	Hydraulic Modification	Channelization or Diking	-	-	N	N	-	N / +	N / -	N / -	N / -	N / -	N / -	N / -	N / -	N / -	N / -	N / -	N / +	N	U	N / -	U
		Culvert Cleaning	+	+	N	N / +	+	N	N	+	+	+	N / +	N	N	N	+	+	N	N	U	N / +	U
		Culvert Extension, Reduction	U	N / +	N	N / +	N / +	U	U	U	U	U	U	U	U / +	U	U	U	U	N	U	U	U
		Culvert Replacement	+	+	N	N	+	N / +	U	+	+	+	+	N / +	+	N / +	+	+	N	N	U	U / +	U
		Deposition of Large Woody Debris	+	+	N	N	+	+	U / +	U / +	+	U / +	N / +	N / +	N / +	N	N	N	N	N	U	+	U
		Removal of Large Woody Debris	N/-	N/ -	N	N	N / -	N / -	U	U	U	U	U	N	U	U	N	N	N	N	U	U	U
		Temporary Water Diversion	N	N	N	U	N	N	N	N	N	N	N	N	N	N	N	N	N	N	U	N	U
	Vegetation Modification	Long Term Removal of Vegetation	-/+	- / +	N	N	- / +	- / +	U / +	- / +	- / +	- / +	- / +	- / +	N	N	- / +	- / +	N	N	U	U / +	U
		Permanent Removal of Vegetation	-	-	N	N	-	-	-	-	-	-	-	-	N	-	-	-	N	N	U	-	U
		Planting Vegetation	+	+	N	N	+	+	+	+	+	+	+	+	+	+	U	+	+	N	+	+	U
		Short Term Removal of Vegetation	-/+	U / +	N	N	U / +	N / +	U / +	U / +	U / +	- / +	- / +	N / +	N / +	N	N / +	-/+	N	N	U	U / +	U
	Paving/Concrete	Addition of Impervious Surface	-	U	N	N	U	N	N	U	U	N	N	N	U	N	N	N	N	N	U	N	U
		Maintenance of existing	N	U	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	U	N	U
	Structure Work	Bridge Debris Removal	N	+	N	N	+	N	N	+	+	N	N	N	N	N	N	N	N	N	U	N	U
		Bridge Deck work/general repair	N	+	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	U	N	U
	Chemical	Fuel & Industrial Fluids Present	N	N	N/-	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
		High Pressure Washing/Flushing	N/-	N/-	N / -	N	N/-	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
		Painting	N	N	N / -	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
		Uncured Concrete, Hot Asphalt or Hot Tar Used	N/-	N	N / -	N	N/-	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Instream	Earth Work	Drilling, Excavation, & Filling	-	N/ -	N	U	N/ -	N	U	- / +	- / +	N	- / +	-	- / +	- / +	-	-	U	N	U	N / +	U
		Heavy Equipment Present	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	U	N	U
		Manual Labor Present	N	U	N	N	U	N	N	N	N	N	N	N	N	N	N	N	N	N	U	N	U
		Shore Defense Works	N / +	- / +	N	N / +	- / +	N / +	N / +	N / +	N / +	U	N / +	U	+	U / -	U / -	U	U	N	U	+	U
	Hydraulic modification	Channelization or Diking	-	-	N	N	-	U	-	-	-	-	-	-	-	-	-	N / +	N / +	N	U	- / +	U
		Culvert Cleaning	U	N / +	N	N / +	N / +	U	U	U / +	U / +	U / +	N / +	U	N / +	N	+	+	N	N	U	N / +	U
		Culvert Extension, Reduction	N	N	N	N / +	N	U	U	U	U	U	U	U	U / +	U	U	U	U	N	U	U	U
		Culvert Replacement	N	U	N	+	+	N / +	U	+	+	U / +	N / +	N / +	+	N / +	N / +	+	N	N	U	U / +	U
		Deposition of Large Woody Debris	+	+	N	N	+	+	U / +	U / +	U / +	N / +	N / +	N / +	N / +	N	N	N	N	N	U	+	U
		Removal of Large Woody Debris	U/ -	U/-	N	N	U / -	-	U	U / -	U	U	U	U	U	U	N	N	N	N	U	U	U
		Temporary Water Diversion	U/ -	N	N	N / -	N	N	N	N	N	N	N	N	N	N	N	N	N	N	U	N	U
	Structure Work	Barge Present	U	U	N	U	U	N	N	N	N	N	N	N	N	N	N	N	N	N	U	N	U
		Bridge Debris Removal	U	N	N	N	N	N	U	N	N	N	N	N	N	N / +	N	N	N	N	U	N	U
		Falsework, Cofferdam, or Other Temporary Structure Placement	U/-	N / -	N	N / -	N / -	N	N	N	N	N	N	N	N	N	N	N	N	N	U	N	U
		Pier, Footing, abutment scour	U	U	N	N	U	N	N	N	N	N	N	N	N	N	N	N	N	N	U	N	U
	Chemical	Fuel & Industrial Fluids Present	U	N	N / -	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
		High Pressure Washing/Flushing	U	N/-	N / -	N	N/-	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
		Uncured Concrete Used	U	N	N / -	N	N/-	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
		Treated woods (in stream only)	U	N	N / -	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Best Management Practices to Avoid and Minimize Impact

[illegible]

Best Management Practices to Avoid and Minimize Impact (Continued)

[illegible]

Mechanism of Effects and Potential Outcomes

Maintenance Activity			Mechanisms for Effects/Impacts	Effects with Program
Proximity	Classification	Components		Potential Outcomes
Distant from Stream (>300 ft away)	Earth/ Surface Work	Clearing, Drilling, Excavation, Filling, Grading, Grubbing, Cleaning, grinding or cutting	Mobilize sediments, increase erosion rates	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality. • Maintain or restore structure. • Restore or Maintain surface water drainage. • Reduce or trap sediments in gravel shoulder. • Allow infiltration of water in gravel. • Clean roadway surface and remove soil, organics, solid waste and debris from entering Watercourse, streams and/or water bodies. • Reduce sediment loading of shoulders, ditches, detention ponds and watercourses and/or streams. • Reduce the occurrence of vehicles leaving the road surface and entering sensitive areas. • Leave vegetated sections in ditch where sediment buildup has not impeded flow or infiltration.
	Hydraulic Modification	Channelization or Diking	Mobilize sediments, harden banks, prevent re-vegetation, alter hydraulics and flow regime	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality.
		Culvert Cleaning	Mobilize sediments	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality. • Reduce sediment conveyance and loading to watercourses and/or streams by trapping and removal of sediment and/or debris from the system. • Restore or maintain surface water drainage. • Reduce over flows/flooding from plugged system. • Maintain and restore water quality by cleaning ditches or structures. • Maintain or restore sediment storage capacity. • Keep structure clear of debris, trash, and yard waste.
		Culvert Extension, Reduction	Mobilize sediments	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality. • Maintain or restore structure. • Restore or maintain surface water drainage by performing repairs. • Reduce turbidity. • Maintain or restore sediment storage capacity. • Keep structure clear of debris, trash, and yard waste.
		Culvert Replacement	Mobilize sediments	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality. • Maintain or restore structure. • Restore or maintain surface water drainage by performing repairs. • Reduce potential plugging of systems. • Reduce over flows/flooding from plugged system. • Maintain or restore sediment storage capacity. • Keep structure clear of debris, trash, and/or yard waste. • Reduce flooding and erosion from blockages of system by removing obstructions such as debris, trash, yard waste, and/or sediment.
		Enclosed Drainage System Cleaning	Mobilize sediments	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality. • Control storage, delivery, and routing of surface and groundwater, to Control volumes and velocities of stormwater discharge by removing sediments. • Reduce sediment transport from system breaks by cleaning. • Maintain or restore structure. • Reduce turbidity. • Reduce potential plugging of systems. • Reduce over flows/ flooding from plugged system. • Maintain or restore sediment storage capacity. • Maintain and restore water quality by cleaning ditches or structures. • Reduce flooding and erosion from blockages of system by removing obstructions such as debris, trash, yard waste, and/or sediment.
		Deposition of Large Woody Debris	Not Applicable	Not Applicable
		Removal of Large Woody Debris	Not Applicable	Not Applicable
		Temporary Water Diversion	Mobilize sediments, temporary fish passage impediment	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality.
	Vegetation Modification	Long Term Removal of Vegetation	Increase erosion rates & sedimentation	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality. • Provide a safe roadway surface for traveling public. • Reduce the occurrence of vehicles leaving the road surface and entering sensitive areas.
		Permanent Removal of Vegetation	Increase erosion rates & sedimentation, elimination of normal forest succession processes	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality. • Provide a safe roadway surface for traveling public. • Reduce the occurrence of vehicles leaving the road surface and entering sensitive areas.
		Planting Vegetation	Buffer riparian zone, decrease erosion rates	• Protect Watercourse, stream and/or waterbody. • Maximize opportunities for increased infiltration. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality. • Reduce turbidity. • Allow infiltration of water.
		Short Term Removal of Vegetation	Increase erosion rates & sedimentation	• Protect Watercourse, stream and/or waterbody. • Maximize opportunities for increased infiltration. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality. • Reduce turbidity. • Allow infiltration of water.
	Paving	Addition of Impervious Surface	Increase erosion rates & sedimentation, prevent revegetation	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality.
		Maintenance of existing		• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality. • Provide a safe roadway surface for traveling public. • Minimize pollutants resulting from vehicle accidents such as petroleum hydrocarbons, heavy metals, and road washoff from entering storm drainage /stream system. • Reduce the occurrence of vehicles leaving the road surface and entering sensitive areas. • Control sediment and debris from ROW.
	Chemical	Fuel & Industrial Fluids Present	Release pollutants	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality.
		Painting	Release pollutants	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality.
		Uncured Concrete, Hot Asphalt or Hot Tar Used	Release pollutants	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality.
Adjacent to or Above Stream (within 300 ft)	Earth/Surface or cleaning Work	Clearing, Drilling, Excavation, Filling, Grading & Grubbing	Mobilize sediments, increase erosion rates	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality. • Maintain and restore structure. • Reduce sediment conveyance and loading to watercourses and/or streams by trapping and removal of sediment and /or debris. • Reduce or trap sediments in gravel. • Allow infiltration of water through gravel. • In areas where open ditch sections abut the roadway, provide a filter strip for runoff before water enters the ditch using gravel and vegetation on the roadway shoulder, if area is wide enough. • Clean roadway surface and remove soil, organics, solid waste and debris from entering watercourses, streams and/or water bodies. • Restore or maintain surface water drainage by cleaning curbs and drain inlets. • Reduce sediment loading of shoulders, ditches, detention ponds and watercourses and/or streams. • Provide a safe roadway surface for traveling public. • Reduce the occurrence of vehicles leaving the road surface and entering sensitive areas. Control sediment and debris from ROW.
		Heavy Equipment Present	Soil compaction, mobilize sediments, increase erosion rates	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality. Minimize work site pollutants from maintenance / repair activities.
		Shore Defense Works	Mobilize sediments, increase erosion rates, reduce gravel recruitment	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality. • Improve or maintain riparian habitat. • Reduce streambed/streambank erosion by re-vegetation or stabilization of disturbed soils. • Remove soil, organics, solid waste, and debris from entering watercourses, streams and/or water bodies. • Reduce sediment loading of shoulders, ditches, detention ponds and watercourses and/or streams. • Provide a reasonable safe roadway surface for traveling public. • Minimize pollutants resulting from vehicle accidents such as petroleum hydrocarbons, heavy metals, and road washoff from entering storm drainage/stream system. • Reduce the occurrence of vehicles leaving the road surface and entering sensitive areas. • Control sediment and debris from ROW. • Stabilize slide/washout area within the ROW to reduce environmental, transpiration and/or structural impacts.
	Hydraulic Modification	Channelization or Diking	Mobilize sediments, harden banks, decrease sinuosity, prevent re-vegetation, remove existing in-stream complexity, alter hydraulics and flow regime, elimination of channel migration, and reduce instream habitat complexity	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality. Reduce streambed/streambank erosion by revegetation or stabilization of disturbed soils. • Reduce flooding and erosion from blockages of system by removing obstructions such as debris, trash, yard waste, sediment.
		Culvert Cleaning	Mobilize sediments	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality. • Maintain or restore structure. • Minimize work site pollutants from maintenance/repair activities. • Restore or maintain surface water drainage by performing repairs. • Restore or maintain road surface/safety. • Reduce turbidity. • Reduce sediment conveyance and loading to watercourses and/or streams by trapping and removal of sediment and/or debris from the system. • Clean up and remove sediment from drainage system. • Reduce potential plugging of systems. • Reduce over flows/flooding from plugged system. • Maintain and restore water quality by cleaning ditches or structures. • Keep structure clear of debris, trash, and yard waste. • Maintain and restore water quality by cleaning ditches and/or stormwater facilities which are watercourses or streams. • Improve or maintain fish passage. • Improve or maintain streambed habitat within pipe, culvert or area within work zone. • Reduce flooding and erosion from blockages of system by removing obstructions such as debris, trash, yard waste, sediment. • Remove soil, organics, solid waste and debris from entering watercourses, stream and/or water bodies. • Reduce sediment loading of shoulders, ditches, detention ponds and watercourses and/or streams. Control sediment and debris from ROW.
		Culvert Extension, Reduction	Mobilize sediments	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality. • Maintain or restore structure. • Minimize work site pollutants from maintenance/repair activities. Restore or maintain road surface/safety. • Improve or maintain streambed habitat within pipe, culvert or area within work zone. • Reduce streambed/streambank erosion by revegetation or stabilization of disturbed soils. • Reduce the occurrence of vehicles leaving the road surface and entering sensitive areas. • Repair roadways, surface drainage, stormwater system, and/or other ROW structures.
		Culvert Replacement	Mobilize sediments	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality. • Maintain or restore structure. • Minimize work site pollutants from maintenance/repair activities. • Restore or maintain road surface/safety. • Improve or maintain streambed habitat within pipe, culvert or area within work zone. • Reduce streambed/streambank erosion by revegetation or stabilization of disturbed soils. • Improve or maintain fish passage. • Improve or maintain riparian habitat.
		Enclosed Drainage System Cleaning	Mobilize sediments	• Protect Watercourse, stream and/or waterbody. • Reduce worksite pollutants to maintain or restore water quality. • Control storage, delivery, and routing of surface and groundwater, to control volumes and velocities of stormwater discharge by removing sediments. • Reduce sediment transport from system breaks by cleaning. • Maintain or restore structure. • Minimize work site pollutants from maintenance/repair activities. • Restore or maintain surface water drainage by performing repairs. • Reduce turbidity. • Reduce sediment conveyance and loading to watercourses and/or streams by trapping and removal of sediment and/or debris from the system. • Clean up and remove sediment from drainage system. • Reduce potential plugging of systems. • Reduce over flows/flooding from plugged system. • Maintain and restore water quality by cleaning ditches or structures. • Maintain or restore sediment storage capacity. • Keep structure clear of debris, trash, and yard waste. • Maintain and restore water quality by cleaning ditches and/or stormwater facilities which are watercourses or streams. • Improve in-stream bio-filtration. • Reduce flooding and erosion from blockages of system by removing obstructions such as debris, trash, yard waste, and sediment. • Remove soil, organics, solid waste and debris from entering watercourses, streams and/or water bodies. • Reduce sediment loading of shoulders, ditches, detention ponds, watercourses and/or streams. • Control sediment and debris from ROW. • Improve or maintain fish passage. • Improve or maintain streambed habitat within pipe, culvert or area within work zone.

Mechanism of Effects and Potential Outcomes (Continued)

Maintenance Activity			Mechanisms for Effects/Impacts	Effects with Program
Proximity	Classification	Components		Potential Outcomes
		Deposition of Large Woody Debris	Mobilize sediments	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality. • Improve or maintain streambed habitat within pipe, culvert or area within work zone.
		Removal of Large Woody Debris	Mobilize sediments, remove existing in-stream complexity.	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality.
		Temporary Water Diversion	Mobilize sediments, temporary fish passage impediment	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality. • Minimize work site pollutants from maintenance/repair activities.
	Vegetation Modification	Long Term Removal of Vegetation	Loss of shade, increase erosion rates & sedimentation, destabilization of streambank, reduced LWD recruitment	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality.
		Permanent Removal of Vegetation	Loss of shade, increase erosion rates & sedimentation, destabilization of streambank reduced LWD recruitment	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality.
		Planting Vegetation	Mobilize sediments, buffer riparian zone, decrease erosion rates	• Protect Watercourse, stream and/or waterbody. • Maximize opportunities for increased infiltration. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality. • Improve in-stream bio-filtration. • Improve or maintain riparian habitat. • Reduce streambed/streambank erosion by revegetation or stabilization of disturbed soils.
		Short Term Removal of Vegetation	Loss of shade, increase erosion rates & sedimentation	• Protect Watercourse, stream and/or waterbody. • Maximize opportunities for increased infiltration. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality. • Improve in-stream bio-filtration. • Improve or maintain riparian habitat. • Reduce streambed/streambank erosion by revegetation or stabilization of disturbed soils.
	Paving	Addition of Impervious Surface	Increase erosion rates & sedimentation, prevent revegetation	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality. • Minimize work site pollutants from maintenance/repair activities. • Restore or maintain road surface/safety. • Provide a reasonable safe roadway surface for traveling public. • Minimize pollutants resulting from vehicle accidents such as petroleum hydrocarbons, heavy metals, and road washoff from entering storm drainage/stream system. • Reduce the occurrence of vehicles leaving the road surface and entering sensitive areas. • Repair roadways, surface drainage, storm water system, and/or other ROW structures.
		Maintenance of existing		• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality. • Provide a reasonable safe roadway surface for traveling public. • Minimize pollutants resulting from vehicle accidents such as petroleum hydrocarbons, heavy metals, and road washoff from entering storm drainage /stream system. • Reduce the occurrence of vehicles leaving the road surface and entering sensitive areas. • Control sediment and debris from ROW.
	Chemical	Fuel & Industrial Fluids Present	Release pollutants	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality.
		High Pressure Washing/Flushing	Release pollutants	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality.
		Painting	Release pollutants	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality.
		Uncured Concrete, Hot Asphalt or Hot Tar Used	Release pollutants	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality.
Instream	Earth Work	Drilling, Excavation, & Filling	Mobilize sediments, alter stream hydraulics	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality. • Maintain and restore structure. • Reduce sediment conveyance and loading to watercourses and/or streams by trapping and removal of sediment and /or debris. • Reduce or trap sediments in gravel. • Allow infiltration of water through gravel. • In areas where open ditch sections abut the roadway, provide a filter strip for runoff before water enters the ditch using gravel and vegetation on the roadway shoulder, if area is wide enough. • Clean roadway surface and remove soil, organics, solid waste and debris from entering watercourses, streams and/or water bodies. • Restore or maintain surface water drainage by cleaning curbs and drain inlets. • Reduce sediment loading of shoulders, ditches, detention ponds and watercourses and/or streams. • Provide a reasonable safe roadway surface for traveling public. • Reduce the occurrence of vehicles leaving the road surface and entering sensitive areas. • Control sediment and debris from ROW.
		Heavy Equipment Present	Soil compaction, mobilize sediments, alter stream hydraulics	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality.
		Manual Labor Present	Mobilize sediments, alter stream hydraulics	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality.
		Shore Defense Works	Mobilize sediments, alter stream hydraulics	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality. • Improve or maintain riparian habitat. • Reduce streambed/streambank erosion by re-vegetation or stabilization of disturbed soils. • Remove soil, organics, solid waste, and debris from entering watercourses, streams and/or water bodies. • Reduce sediment loading of shoulders, ditches, detention ponds and watercourses and/or streams. • Provide a reasonable safe roadway surface for traveling public. • Minimize pollutants resulting from vehicle accidents such as petroleum hydrocarbons, heavy metals, and road washoff from entering storm drainage/stream system. • Reduce the occurrence of vehicles leaving the road surface and entering sensitive areas. • Control sediment and debris from ROW. • Stabilize slide/washout area within the ROW to reduce environmental, transpiration and/or structural impacts.
	Hydraulic modification	Channelization or Diking	Mobilize sediments, harden banks, decrease sinuosity, prevent re-vegetation, remove existing in-stream complexity, alter hydraulics and flow regime, elimination of channel migration, and reduce instream habitat complexity	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality. • Maintain and restore structure. • Reduce streambed/ streambank erosion by revegetation or stabilization of disturbed soils. • Reduce flooding and erosion from blockages of system by removing obstructions such as debris, trash, yard waste and sediment.
		Culvert Cleaning	Mobilize sediments	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality. • Maintain or restore structure. • Minimize work site pollutants from maintenance/repair activities. • Restore or maintain surface water drainage by performing repairs. • Restore or maintain road surface/safety. • Reduce turbidity. • Reduce sediment conveyance and loading to watercourses and/or streams by trapping and removal of sediment and/or debris from the system. • Clean up and remove sediment from drainage system. • Reduce potential plugging of systems. • Reduce over flows/flooding from plugged system. • Maintain and restore water quality by cleaning ditches or structures. • Keep structure clear of debris, trash, and yard waste. • Maintain and restore water quality by cleaning ditches and/or stormwater facilities which are watercourses or streams. • Improve or maintain fish passage. • Improve or maintain streambed habitat within pipe, culvert or area within work zone. • Reduce flooding and erosion from blockages of system by removing obstructions such as debris, trash, yard waste, sediment. • Remove soil, organics, solid waste and debris from entering watercourses, stream and/or water bodies. • Reduce sediment loading of shoulders, ditches, detention ponds and watercourses and/or streams. • Control sediment and debris from ROW.
		Culvert Extension and Reduction	Mobilize sediments, alter stream hydraulics	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality. • Maintain or restore structure. • Minimize work site pollutants from maintenance/repair activities. • Restore or maintain road surface/safety. • Improve or maintain fish passage. • Improve or maintain riparian habitat. • Improve or maintain streambed habitat within pipe, culvert or area within work zone. • Reduce streambed/streambank erosion by revegetation or stabilization of disturbed soils. • Reduce the occurrence of vehicles leaving the road surface and entering sensitive areas. • Repair roadways, surface drainage, storm water system, and/or other ROW structures.
		Culvert Replacement	Mobilize sediments, alter stream hydraulics	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality. • Improve or maintain fish passage. • Improve or maintain riparian habitat. • Improve or maintain streambed habitat within pipe, culvert or area within work zone.
		Enclosed Drainage System Cleaning	Not Applicable	Not Applicable
		Deposition of Large Woody Debris	Mobilize sediments, alter hydraulics, increase habitat complexity	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality. • Improve or maintain streambed habitat within pipe, culvert or area within work zone.
		Removal of Large Woody Debris	Mobilize sediments, alter hydraulics, decrease habitat complexity	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality.
		Temporary Water Diversion	Instream habitat displacement, alter stream hydraulics, barrier to passage	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality. • Minimize work site pollutants from maintenance/repair activities.
	Structure Work	Barge Present	Mobilize sediments, alter stream hydraulics	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality.
		Bridge Debris Removal	Mobilize sediments, alter stream hydraulics	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality.
		Falsework, Cofferdam, or Other Temporary Structure Placement	Instream habitat displacement, alter stream hydraulics, barrier to passage	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality.
		Pier, Footing, or Abutment or Scour	Instream habitat displacement, alter stream hydraulics, barrier to passage	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality.

Mechanism of Effects and Potential Outcomes (Continued)

Maintenance Activity			Mechanisms for Effects/Impacts	Effects with Program
Proximity	Classification	Components		Potential Outcomes
	Chemical	Fuel & Industrial Fluids Present	Release pollutants	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality.
		High Pressure Washing	Release pollutants	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality.
		Uncured Concrete Used	Release pollutants	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality.
		Treated Woods (in stream only)	Release pollutants	• Protect Watercourse, stream and/or waterbody. • Reduce runoff (of dirt, debris, sediment, and petroleum products) from Maintenance Activity to contribute to the restoration of water quality.